

SEQUENCE LISTING

<110> Takeda Chemical Industries, Ltd.

<120> RFRP Receptor Antagonist

<130> 3163W00P

<150> JP 2003-72709

<151> 2003-03-17

<160> 3

<210> 1

<211> 430

<212> PRT

<213> Human

<220>

<400> 1

Met Glu Gly Glu Pro Ser Gln Pro Pro Asn Ser Ser Trp Pro Leu Ser

1 5 10 15

Gln Asn Gly Thr Asn Thr Glu Ala Thr Pro Ala Thr Asn Leu Thr Phe

20 25 30

Ser Ser Tyr Tyr Gln His Thr Ser Pro Val Ala Ala Met Phe Ile Val

35 40 45

Ala Tyr Ala Leu Ile Phe Leu Leu Cys Met Val Gly Asn Thr Leu Val

50 55 60

Cys Phe Ile Val Leu Lys Asn Arg His Met His Thr Val Thr Asn Met

65 70 75 80

Phe Ile Leu Asn Leu Ala Val Ser Asp Leu Leu Val Gly Ile Phe Cys

85 90 95

Met Pro Thr Thr Leu Val Asp Asn Leu Ile Thr Gly Trp Pro Phe Asp

100 105 110

Asn Ala Thr Cys Lys Met Ser Gly Leu Val Gln Gly Met Ser Val Ser

115	120	125
Ala Ser Val Phe Thr Leu Val	Ala Ile Ala Val Glu Arg Phe Arg Cys	
130	135	140
Ile Val His Pro Phe Arg Glu Lys Leu Thr	Leu Arg Lys Ala Leu Val	
145	150	155
Thr Ile Ala Val Ile Trp Ala Leu Ala Leu	Ile Met Cys Pro Ser	
165	170	175
Ala Val Thr Leu Thr Val Thr Arg Glu Glu His His	Phe Met Val Asp	
180	185	190
Ala Arg Asn Arg Ser Tyr Pro Leu Tyr Ser Cys Trp	Glu Ala Trp Pro	
195	200	205
Glu Lys Gly Met Arg Arg Val Tyr Thr Thr Val	Leu Phe Ser His Ile	
210	215	220
Tyr Leu Ala Pro Leu Ala Leu Ile Val Val Met Tyr	Ala Arg Ile Ala	
225	230	235
Arg Lys Leu Cys Gln Ala Pro Gly Pro Ala Pro Gly Gly	Glu Glu Ala	
245	250	255
Ala Asp Pro Arg Ala Ser Arg Arg Arg Ala Arg Val Val	His Met Leu	
260	265	270
Val Met Val Ala Leu Phe Phe Thr Leu Ser Trp Leu Pro	Leu Trp Ala	
275	280	285
Leu Leu Leu Leu Ile Asp Tyr Gly Gln Leu Ser Ala Pro	Gln Leu His	
290	295	300
Leu Val Thr Val Tyr Ala Phe Pro Phe Ala His Trp Leu	Ala Phe Phe	
305	310	315
Asn Ser Ser Ala Asn Pro Ile Ile Tyr Gly Tyr Phe Asn	Glu Asn Phe	
325	330	335
Arg Arg Gly Phe Gln Ala Ala Phe Arg Ala Arg Leu Cys	Pro Arg Pro	

340	345	350
Ser Gly Ser His Lys Glu Ala Tyr Ser Glu Arg Pro Gly Gly Leu Leu		
355	360	365
His Arg Arg Val Phe Val Val Val Arg Pro Ser Asp Ser Gly Leu Pro		
370	375	380
Ser Glu Ser Gly Pro Ser Ser Gly Ala Pro Arg Pro Gly Arg Leu Pro		
385	390	395
Leu Arg Asn Gly Arg Val Ala His His Gly Leu Pro Arg Glu Gly Pro		
405	410	415
Gly Cys Ser His Leu Pro Leu Thr Ile Pro Ala Trp Asp Ile		
420	425	430
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<211> 432		
<212> PRT		
<213> Rat		
<400> 2		
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Gln Asn Gly Ser Asp Val Glu Thr Ser Met Ala Thr Ser Leu Thr Phe		
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Ser Ser Tyr Tyr Gln His Ser Ser Pro Val Ala Ala Met Phe Ile Ala		
35	40	45
Ala Tyr Val Leu Ile Phe Leu Leu Cys Met Val Gly Asn Thr Leu Val		
50	55	60
Cys Phe Ile Val Leu Lys Asn Arg His Met Arg Thr Val Thr Asn Met		
65	70	75
Phe Ile Leu Asn Leu Ala Val Ser Asp Leu Leu Val Gly Ile Phe Cys		
85	90	95

Met	Pro	Thr	Thr	Leu	Val	Asp	Asn	Leu	Ile	Thr	Gly	Trp	Pro	Phe	Asp
				100				105					110		
Asn	Ala	Thr	Cys	Lys	Met	Ser	Gly	Leu	Val	Gln	Gly	Met	Ser	Val	Ser
				115				120					125		
Ala	Ser	Val	Phe	Thr	Leu	Val	Ala	Ile	Ala	Val	Glu	Arg	Phe	Arg	Cys
				130				135					140		
Ile	Val	His	Pro	Phe	Arg	Glu	Lys	Leu	Thr	Leu	Arg	Lys	Ala	Leu	Phe
145					150					155				160	
Thr	Ile	Ala	Val	Ile	Trp	Ala	Leu	Ala	Leu	Leu	Ile	Met	Cys	Pro	Ser
					165					170				175	
Ala	Val	Thr	Leu	Thr	Val	Thr	Arg	Glu	Glu	His	His	Phe	Met	Leu	Asp
					180					185				190	
Ala	Arg	Asn	Arg	Ser	Tyr	Pro	Leu	Tyr	Ser	Cys	Trp	Glu	Ala	Trp	Pro
					195					200				205	
Glu	Lys	Gly	Met	Arg	Lys	Val	Tyr	Thr	Ala	Val	Leu	Phe	Ala	His	Ile
					210					215				220	
Tyr	Leu	Val	Pro	Leu	Ala	Leu	Ile	Val	Val	Met	Tyr	Val	Arg	Ile	Ala
225					230					235				240	
Arg	Lys	Leu	Cys	Gln	Ala	Pro	Gly	Pro	Ala	Arg	Asp	Thr	Glu	Glu	Ala
					245					250				255	
Val	Ala	Glu	Gly	Gly	Arg	Thr	Ser	Arg	Arg	Arg	Ala	Arg	Val	Val	His
					260					265				270	
Met	Leu	Val	Met	Val	Ala	Leu	Phe	Phe	Thr	Leu	Ser	Trp	Leu	Pro	Leu
					275					280				285	
Trp	Val	Leu	Leu	Leu	Leu	Ile	Asp	Tyr	Gly	Glu	Leu	Ser	Glu	Leu	Gln
					290					295				300	
Leu	His	Leu	Leu	Ser	Val	Tyr	Ala	Phe	Pro	Leu	Ala	His	Trp	Leu	Ala
305					310					315				320	

Trp Gly Pro Lys Asn Val Ile Lys Met Ser Thr Pro Ala Val Asn Lys

65					70					75					80	
Met	Pro	His	Ser	Phe	Ala	Asn	Leu	Pro	Leu	Arg	Phe	Gly	Arg	Asn	Val	
				85					90					95		
Gln	Glu	Glu	Arg	Ser	Ala	Gly	Ala	Thr	Ala	Asn	Leu	Pro	Leu	Arg	Ser	
				100					105					110		
Gly	Arg	Asn	Met	Glu	Val	Ser	Leu	Val	Arg	Arg	Val	Pro	Asn	Leu	Pro	
				115					120					125		
Gln	Arg	Phe	Gly	Arg	Thr	Thr	Thr	Ala	Lys	Ser	Val	Cys	Arg	Met	Leu	
				130					135					140		
Ser	Asp	Leu	Cys	Gln	Gly	Ser	Met	His	Ser	Pro	Cys	Ala	Asn	Asp	Leu	
				145					150					155		
Phe	Tyr	Ser	Met	Thr	Cys	Gln	His	Gln	Glu	Ile	Gln	Asn	Pro	Asp	Gln	
				165					170					175		
Lys	Gln	Ser	Arg													
				180												